

## EDITED KSA LISTING

### CLASS: ASSOCIATE ELECTRICAL ENGINEER

*NOTE: Each position within this classification may be required to possess all or some of these knowledges, skills or abilities.*

	<b>Knowledge of:</b>
<b>K1</b>	Basic knowledge of designing and preparing plans for electrical engineering aspects (e.g., lighting, power, control wiring, substation, low voltage, high voltage, etc.) of projects by utilizing current industry standards in order to provide information to institutions, contractors, suppliers, etc. for quality construction work and accurate as-built drawings.
<b>K2</b>	Basic knowledge of electrical engineering fundamentals (e.g., electrical theory and practice, modern electrical equipment, power distribution, control systems, illumination design, etc.) and mathematics in order to perform various job-functions (e.g., design, construction support, design review, etc.).
<b>K3</b>	Basic knowledge of terminology, various codes, safety orders, rules, laws, regulations, departmental policies and procedures, governing the design and installation of electrical (e.g., lighting, power, control wiring, substation, low voltage, high voltage, etc.) in order to provide design, construction support, and design review, etc.
<b>K4</b>	Basic knowledge of cost estimates for electrical engineering aspects (e.g., lighting, power, control wiring, substation, low voltage, high voltage, etc.) in order to provide cost effective design work in preparation of plans and specifications.
<b>K5</b>	General knowledge of structural engineering, mechanical engineering, and architectural elements as related to buildings to properly coordinate electrical aspects as it relates to multi-discipline design work.
<b>K6</b>	Basic knowledge of specification writing for electrical engineering aspects (e.g., lighting, power, control wiring, substation, low voltage, high voltage, etc.) of projects by utilizing current industry standards in order to provide information to institutions, contractors, suppliers, etc. for quality construction work and accurate as-built information.
<b>K7</b>	Basic knowledge of procedures of building construction as it relates to the installation of electrical equipment (e.g., lighting, power, control wiring, substation, low voltage, high voltage, etc.) utilizing current industry standards in order to provide effective design and construction support.
<b>K8</b>	<b>Basic knowledge of Computer Aided Drafting and Design (CADD) and engineering applications, software and hardware in order to provide accurate design work in preparation preliminary plans and working drawings.</b>

Bold text-indicates not on Classification Spec.

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	<b>Skill to:</b>
<b>S1</b>	Basic skill in clearly communicating ideas effectively (verbal, written, and/or graphical) while maintaining cooperative relations with others in order to provide information to staff and vendors, etc.
<b>S2</b>	Basic skill to analyze and interpret data and situations accurately in order to perform design work, write technical reports, provide alternatives and recommendations for management decisions and construction support, etc.
<b>S3</b>	Basic skill to prepare and accurately interpret and review plans, specifications, and estimates for lighting, power, control wiring, substation, low voltage, high voltage, etc., in order to provide information to institutions, contractors, other designers, suppliers, etc., for quality construction work and accurate as-built drawings.
<b>S4</b>	Basic skill to make correct computations in order to provide accurate information related to plans and specifications.
<b>S5</b>	Basic skill in preparing and maintaining electrical engineering records, notes, data, etc. to provide direction, information and recommendations on a wide variety of issues.
<b>S6</b>	Basic skill to make neat and accurate lettering, drawings, and technical sketches in order to provide accurate information related to plans and specifications.
<b>S7</b>	Basic skill to direct or inspect field construction operations or make field inspections and tests of electrical installations in order to achieve conformity to plans and specifications during construction phase of project.
<b>S8</b>	Basic skill in prioritizing and organizing multiple projects and assignments in order to effectively meet schedules.
<b>S9</b>	<b>Basic skill in electrical design in order to produce construction documents that meet the needs of the program as well as the departmental design criteria guidelines and building codes.</b>
<b>S10</b>	<b>Basic skill in communicating (verbal, written, and/or graphical) project requirements in a training capacity to other members of the work unit to produce plans, specifications and reports on a wide variety of electrical projects.</b>